FORM 504 - Bev. Dec. 1988

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

RIPTIVE REPORT

Sheet No. 2505

19800

OHIEF OF PARTY

U.S.COAST & GEODETIC SURVEY
DR. HENRY S.PRITCHETT, SUPERINTENDENT.

DESCRIPTIVE REPORT

OF THE

HYDROGRAPHY

OF

COAST OF BERING SEA

FROM

TAPKOK TO CAPE NOME,

ALASKA.

SCALE 1/40,000.

BY THE PARTY UNDER CHARGE OF J.F.PRATT, ASSISTANT, COMMANDING U.S.C.& G.SURVEY STR.PATTERSON.

JULY AND AUGUST 1900.

Pages 3+2 - Salistice removed

(Title & Pages)

Page 4

DESCRIPTIVE REPORT OF THE HYDROGRAPHIC SHEET, SCALE 1/40,000.

EXTENDING FROM
TAPKOK TO CAPE NOME.

NORTHERN SHORES OF BERING SEA,
ALASKA.

SURVEYED BY THE PARTY ATTACHED TO THE U.S.C.& G.S. STEAMER PATTERSON

IN

JULY AND AUGUST 1901.

The geographical positions

are from the triangulation carried from the astronomical station of 1899 on Carolyn Island and executed by R.B.Derickson and H.W.Rhodes, Aids in the party, during July and August 1900.

The shore line

is from a topographic survey by R.L.Faris, Assistant in the party, during July and August 1900.

The hydrographic points

were determined topographically.

The vessel and boats used

were the U.S.C.& G.S.S. "Patterson" and its steam launch "Vixen" and launch "Reynard".

The observers were

J.F.Pratt, Assistant; W.G.Appleton, First Watch Officer; W.I.Eisler, Second Watch Officer; L.M.Furman, Third Watch Officer and H.T.Powell, Chief Engineer.

The recorders were

H.T.Powell, Chief Engineer; F.H.Thompson, Surgeon; W.G.Appleton, First Watch Officer and A.E.Brisman, Yeoman First Class, U.S.N.

The leadsmen were

the crew of the Steamship Patterson, all being rotated in watches as fast as they were trained, with the exception of the Launches Crew, where the same two seamen were usually used. The datum plane

corresponded to 2.5 feet on the Tapkok Tide Staff and 1.7 feet on the Nome Tide Staff and is adopted from a few selected lowest low waters at the Tapkok Tidal Station.

The mean rise and fall of the tide

is a very uncertain and fluctuating quantity, all depending upon the winds. Baffling winds of a good deal of force will create greater daily fluctuations; while calms, or continuous winds from one direction, will produce the

lesser flucation, i.e. permit the tides to daily fluctuate normally.

The extreme high and low waters

Strong northerly ones, prevailing for a few days, will produce extreme low waters; while strong southerly ones, prevailing for a number of days, will produce extreme high waters. The range of the extreme high and extreme low depends upon the violence and directions of the winds. Taking an average of the tides observed at Carolyn Island in 1899 and those observed at Tapkok and Nome, which cover different months of the year, the mean and extreme rise and fall is about as follows:

Mean rise and fall about

2.0 feet

Extreme rise and fall about

6.8 feet.

During the season of 1900 southerly winds prevailed to a much greater extent than during the two previous seasons, consequently the tidal observations of 1900 will show a smaller rise and fall than would probably be obtained from several seasons observations.

Dangers:-

No outlying dangers were discovered along the coast line of this sheet.

Cape Nome: -

This promontory rises, about 500 feet, abruptly from the shore line and is the land mark for making this portion of the coast. Nome City lies about 11-1/4 miles to the westward of it.

Safety Sound; -

extending from Cape Nome to Solomon River, is a very shallow stretch of tide-water. Its eastern entrance is narrow and crooked and only suitable for small crafts. Its westerly entrance, Port Safety, has sufficient water on the bar(6 feet at low tide) for the smaller class of local coast wise vessels.

A separate resurvey, on a scale of 1/10,000, was made of Port Safety. This place has a few wooden buildings and at times a floating population of one or two hundred souls.

Solomon, or Solomon City, at the mouth of Solomon River, was destroyed by high water during one of the gales of September last. This is a small, distributing settlement for the Solomon River mining country. There was supposed to be two or three hundred miners scattered along this stream and its tributaries.

Pack trains and two or four horse wagons are driven from Nome City along the beach to Cape Nome, then over the promontory, then along the sand spit to Port Safety, where the horses are swum across and the freight and wagons ferried, then along the sandy island to Solomon City, where the swimming and ferrying again occurs, then up the bed of Solomon River to the divide, then down one of the tributaries of the Neuckluck to Council City.

The long narrow island, Moody Island, extending from Solomon to Port Safety, is principally of sand with marshy places along its inshore edge. All the back country, with the exception of the summits

of the higher hills, is covered with tundra.

The surface of the summit of Cape Nome is principally covered with irregular, broken granite, which is largely covered with a dark umbilical lichen.

Assistant C.& G. Survey,

Chief of Party.

NAUTICAL CHARTS BRANCH

SURVEY NO. H.2505

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1956	Reconstr. 9380	G.H.E	Mostly thru Existing chart 9380 Before After Verification and Review
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.